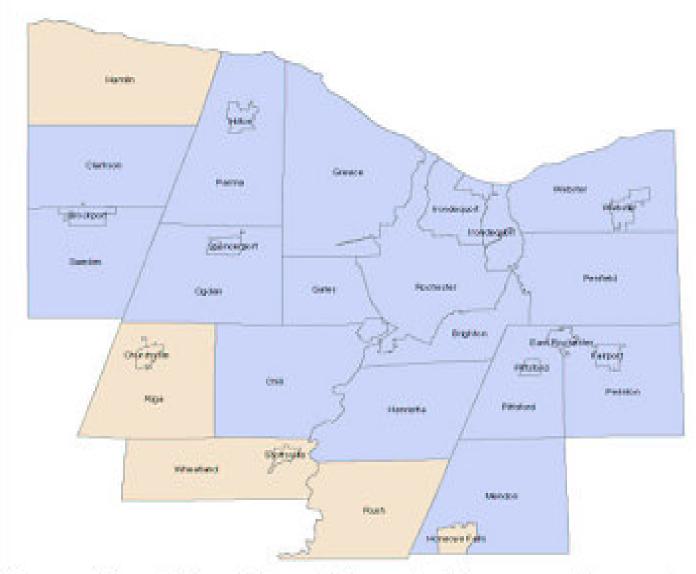
Presentation Outline

- Monroe County Stormwater Coalition
- Phase II Storm Program
- Annual Report
- Education / Public Participation
 Opportunities

Monroe County Stormwater Coalition

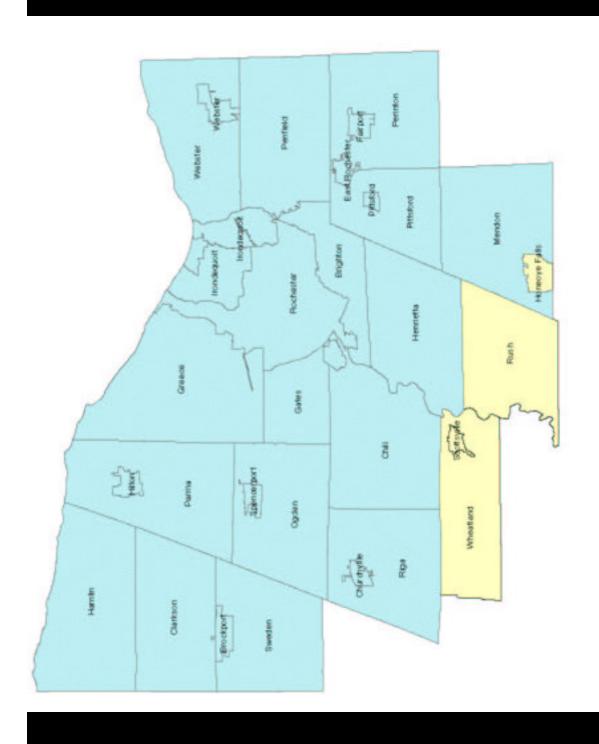
- An intergovernmental Partnership
- Municipalities, Non-traditional MS4 and Partnering Agencies



Regulated Municipalities in Monroe County

Legend





Stormwater Coalition Members

Stormwater Coalition Members
Non-members

THE STORMWATER COALITION OF MONROE COUNTY MEMBERS

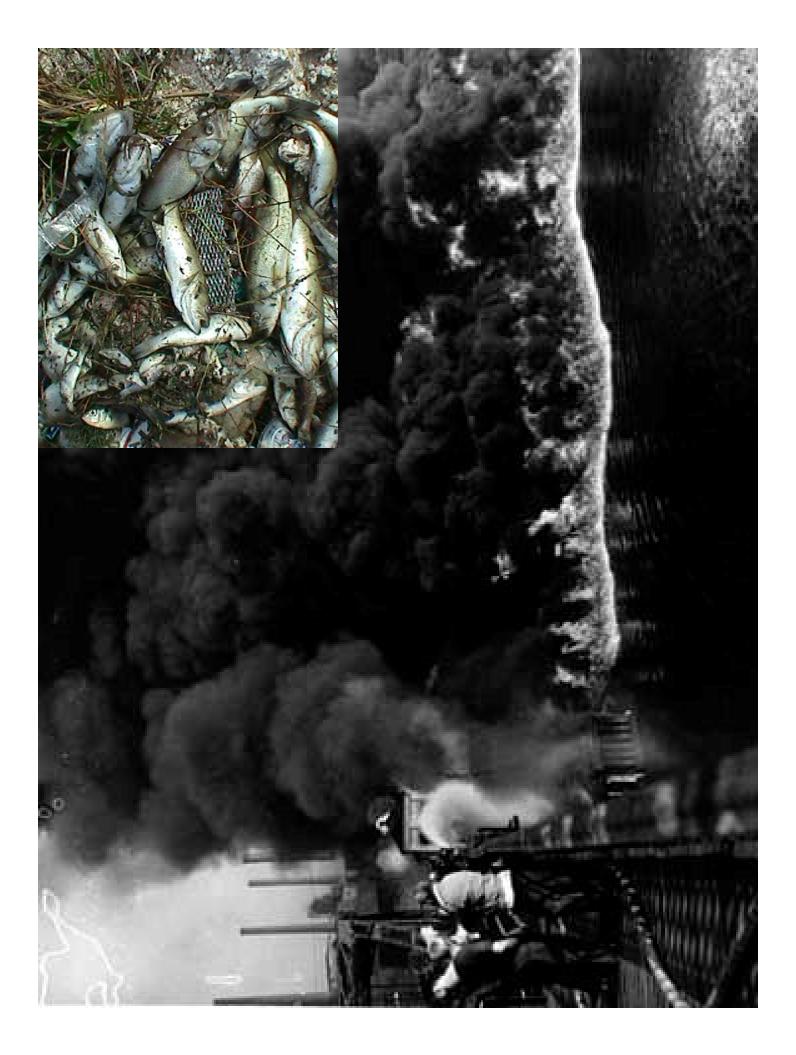
TOWNS: BRIGHTON, CHILI, CLARKSON, GATES, GREECE, HAMLIN, HENRIETTA, IRONDEQUOIT, MENDON, OGDEN, PARMA, PENFIELD, PERINTON, PITTSFORD, SWEDEN, WEBSTER, WHEATLAND.

VILLAGES: BROCKPORT, CHURCHVILLE, EAST ROCHESTER, FAIRPORT, HILTON, PITTSFORD, SPENCERPORT, WEBSTER.

AGENCIES: CITY OF ROCHESTER PURE WATERS DISTRICT IN CONJUNCTION WITH MONROE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES, MONROE COUNTY DEPARTMENT OF TRANSPORTATION.

SUNY Brockport

Phase II Storm Program



1972 Federal Clean Water Act*



created "individual permits"
National Pollutant Discharge
Elimination System (NPDES)

NYSDEC delegated Program

State Pollutant Discharge Elimination System (SPDES)

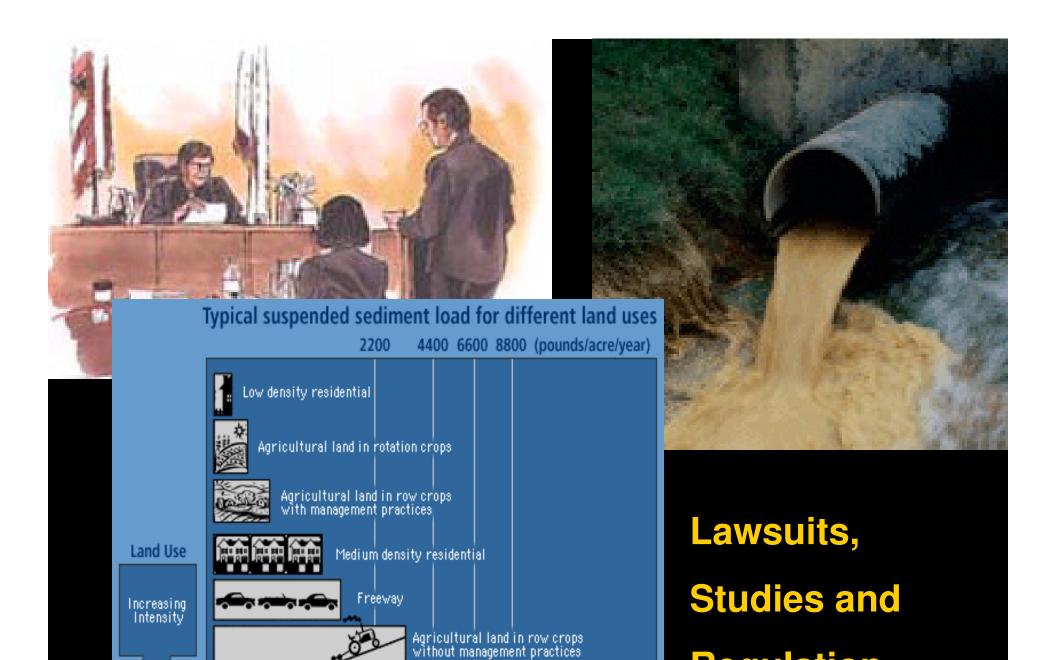
ECL Article 17& 6NYCRR

*water pollution control act

\$ Funding For Clean Water







Areas under development Regulation

Typical Sediment load. Credit: Wisconsin DNR

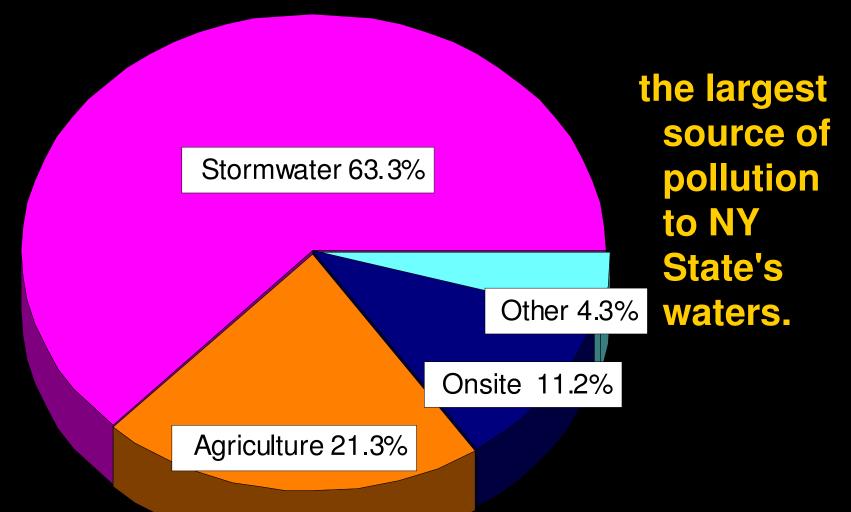
1987 CWA Amendment:Stormwater

Revisions added STORMWATER

as a pollutant (Nonpoint source) that could be covered under a "general" permit

(vs. individual permits for point sources)

Stormwater runoff is

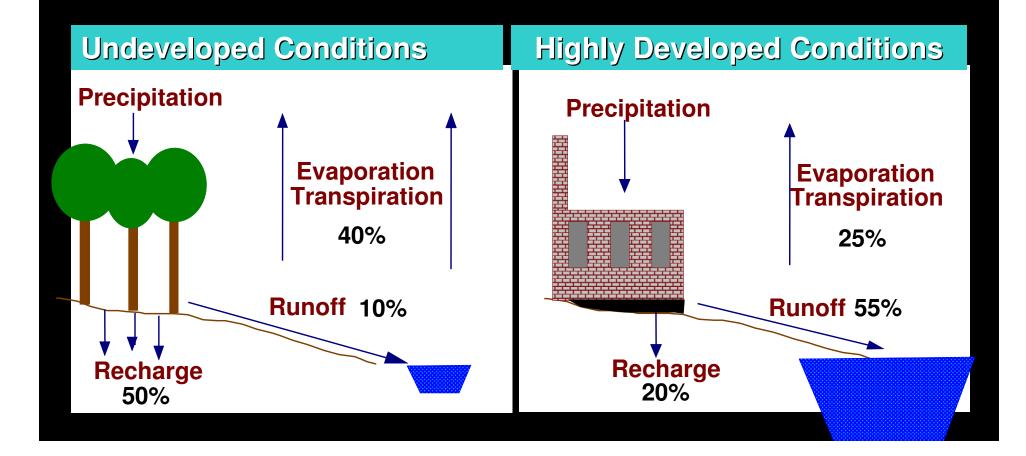


Excluding Atmospheric Deposition & Contaminated Sediments

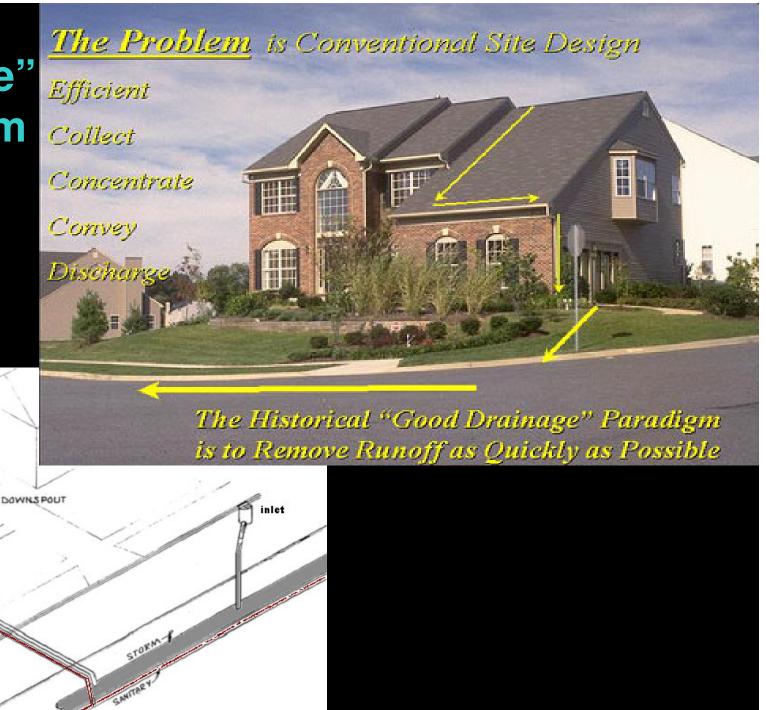
Stormwater Runoff is Rain or snowmelt

that flows over land or rooftops, paved areas, bare soil and lawns picking up pollutants.

Stormwater runoff is a natural part of the hydrologic cycle ... however as land is developed, runoff increases.



"Good Drainage" Paradigm



Effects of Development on Streams-A chain of events...

- Increased flood peaks, more frequent flooding and elevated floodplains
- Decrease in groundwater recharge lower dry weather flows in streams
- Increased bankfull flows and subsequent streambank erosion
- Loss of Habitat Structure

Regulatory History: EPA Stormwater Program

- Phased approach required by the 1987 Amendments to the Clean Water Act
- Phase I addressed:
 - Facilities permitted before 1987
 - Certain Industrial Activities
 - Medium and Large Municipalities
 - Construction Activities > 5 acres
- Phase II left to address other sources

Phase I Covered:



- Large and Medium MS4s:
 - -Large: >250,000
 - -Medium: 100,000-249,999

Phase I Large Construction

- Applied to construction activity disturbing > 5 acres
- Also applied to activities less than 5 acres if part of a common plan of development or sale which collectively would disturb more than 5 acres.

Phase II Final Rule

- Signed on October 29, 1999
- Published in the Federal Register on December 8, 1999
- Rule and fact sheets available at:
 - www.epa.gov/owm/sw/phase2



Phase II: Small Municipal Separate Storm Sewer Stormwater Program

Municipal Separate Storm Sewer System ("MS4") Definition:

- "A conveyance or system of conveyances owned by a State, City, Town, Village, or other public entity that discharges to the Waters of the United States and is:
 - designed or used to collect or convey stormwater (includes gutters, pipes, ditches)
 - not a combined sewer
 - not part of a Publicly Owned Treatment Works (i.e. sewage treatment plant)"

Phase II

Addresses "Small" MS4s



 Any MS4s that are not already designated and regulated as large or medium under Phase I. (i.e. those less than 100,000 in population)

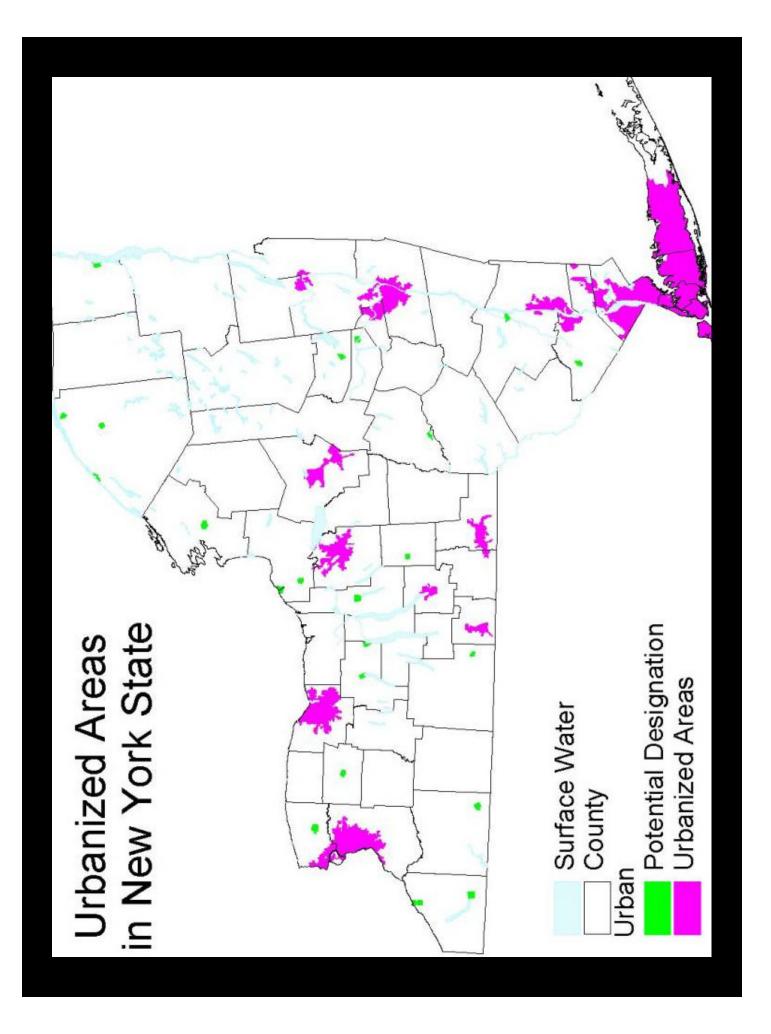
Regulated Small MS4 Definition:

- Any Small MS4 which is:
 - located in an "Urbanized Area" and/or
 - "designated" by DEC

Regulated MS4s Include:

- 357 Municipal Governments ("Automatic")
- ??? Municipal Governments (TBD*)
- "Misfits"
 - DOT, Thruway, County Highway Departments,
 - Other State agencies, authorities
 - Airports, State and community colleges
 - Post offices, VA hospitals, military bases, prisons
 - Water, sewer, and other special districts

* TBD: To be determined



Potential Designation Criteria

- 123.35(b)(1)(ii) "EPA's recommends a balanced consideration of the following designation criteria on a watershed or local basis:
 - Discharges to sensitive waters;
 - High growth or growth potential;
 - High population density;
 - Contiguous to an urbanized area;

Requirements of MS4 Permits

- Six Minimum Control Measures:
 - Public Education and Outreach
 - Public Involvement and Participation
 - Illicit Discharge Detection and Elimination
 - Construction Site Runoff Control
 - Post-Construction Stormwater Management
 - Pollution Prevention / Good Housekeeping for Municipal Operations

Public Education & Outreach:

- Distribute information that describe the impacts of stormwater and actions to reduce pollution
- Informs the public of actions they can take to eliminate or reduce pollution from their properties
- Should direct information to specific targeted groups (e.g. commercial, industrial, and residential areas)
- Address viewpoints and concerns of all subcommunities (e.g. business, minorities, developers)

Public Involvement/

- Participation

 Must comply with State & Local public noticing requirements for ordinances, local laws, SEQRA, etc.
 - Should involve the public in developing, implementing and reviewing the MS4's stormwater management program
 - Reach out to and engage all ethnic and economic groups
 - Allow citizens to have meaningful input in the decision-making process
 - Hold public hearings
 - Work with volunteers

Illicit Discharge Detection and Elimination Requirements

- Develop maps that show the system of pipes and outfalls to receiving waters, and areas of concentrated activities
- Prohibit illicit discharges into the system by ordinance or other means
- Implement a plan to detect and address these discharges
- Inform the public as to the hazards and consequences of illicit discharges



Construction Site Runoff Control

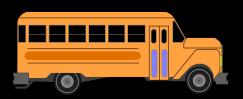
- Must develop, implement and enforce a program to reduce pollution from construction activities by ordinance or other means
- Program must include:
 - Requirements for owners to implement BMPs
 - Pre-construction review of plans
 - Procedures to consider public input
 - Inspections during construction
 - Penalties to ensure compliance

Development/ Redevelopment

- Must develop a program to address stormwater runoff from new or redeveloped areas
- Program must:
 - Include a plans to implement site-appropriate, costeffective structural and non-structural BMPs
 - Ensure long-term operation and maintenance of BMPS
 - Ensure controls are in place to prevent or minimize water quality impacts

Pollution Prevention/ Good Housekeeping

- Must develop and implement a cost effective operation and maintenance program to reduce pollutant runoff from municipal operations
- Must include employee training including:
 - Park and open space management
 - Fleet maintenance
 - Building maintenance
 - Stormwater system maintenance



Pollution Prevention/ Good Housekeeping

- Must consider:
 - Maintenance activities and sched
 - Controls to reducing/eliminating pollutants form parking lots, storage areas and waste transfer facilities
 - Procedures for proper disposal of waste materials removed form storm drains
 - Inspection procedures for controls to reduce floatables and other pollutants

Phase II Small Construction Program



Phase II Small Construction

Applies to:

- Activities greater than or equal to 1 acre of disturbance
- Activities less than one acre if part of a common plan of development or sale which would disturb more than one acre
- Certain activities of less than one acre if designated by DEC based on water quality impacts

Interaction between DEC & MS4 Construction Programs

- DEC Program
 - Administered by DEC
 - Requires permit coverage, regardless of whether MS4 has program (duplication)
- MS4 Program
 - Must meet MS4 requirements
 - Covers discharges to the MS4 system
 - Discharges directly to waterways from construction site are not automatically covered

Time line

- Dec. 2002: DEC must:
 - issue Small MS4 permit(s)
 - designate additional Small MS4s.
- March 2003: MS4s must:
 - If regulated, file NOIs for their municipal programs
 - File NOIs for construction activities > 1acre
- March 2008: Phase II fully implemented
 - If regulated, have 6 point programs operational

Annual Report

NYSDEC Permit GP-02-02 Annual Report

- "The MS4 must take all necessary actions to ensure future discharges do not cause or contribute to the violation of a water quality standard, and the MS4 must document these actions in the stormwater management plan."
- "Develop, implement, and enforce a stormwater management program to reduce the discharge of pollutants to the *maximum extent* practicable."

Annual Report Compliance

• Prior to submitting the annual report, present the draft at a meeting that is open to the public, where the public attendees are able to ask questions about and make comments on the report.

2005 – 2006 Report PUBLIC EDUCATION AND OUTREACH

- Water Education Collaborative (WEC)
 - Presentations at local schools.
 - Exhibits at community events with water quality component.
- Cornell Cooperative Extension School Events and Great Lakes/Great Lawns program.
- Monroe County's Household Hazardous Waste Collection Program.

PUBLIC INVOLVEMENT/PARTICIPATION

- Public meeting for Annual Report.
- Community Water Watch Program.
- International Coastal Clean Up Day.
- Local Conservation Boards, Environmental Protection Boards, and Watershed Management Committees.

PUBLIC INVOLVEMENT/PARTICIPATION





ILLICIT DISCHARGE DETECTION/ELIMINATION

- Illicit Discharge Task Group meets monthly, coordinates activities.
- IDDE training session for municipalities.
- Monroe County's Adopt an Outfall Program.
- Mapping and inspection of outfall structures.
- Development of plans to identify illicit connections.

CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

- made changes to the construction and post-construction model ordinances developed by the Coalition
- Education efforts to train municipalities, contractors, developers, and engineers.
- Sponsored Workshops for MS4 staff on construction management and model ordinance.
- in-field training sessions for MS4 inspection staff on construction site inspections

CONSTRUCTION SITE STORMWATER



POST CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

- Construction Task Group's Model Ordinance.
- Development of best management practices for municipal operations.
- A maintenance agreement and a stormwater facility inspection form have been developed
- Educate and train municipal field staff.

POLLUTION PREVENTION & GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

- Training program for Roadway Stormwater Management BMP's.
- Develop inspection check list for municipal operations.
- Review storm network maintenance measures.



CITIZEN INPUT

- Review draft Annual Permit (Town, Village, County).
- Final Report due at NYSDEC Albany offices by June 1, 2006.
- GET INVOLVED!!!!

Education / Public Participation Opportunities